Amendment to the Claims

This listing of claims will replace all prior versions and listings of claims in the above-referenced application.

- 1-49. (canceled)
- 50. (original) A vector comprising: (a) one or more components from a first plant virus (b) a partial or complete 3' untranslated region from an RNA of a second plant virus.
- 51. (original) The vector of claim 50, wherein the 3' untranslated region facilitates systemic spread of the virus.
- 52. (original) The vector of claim 51, wherein the 3' untranslated region comprises a recognition site for complex formation with coat protein.
- 53. (original) The vector of claim 50, wherein the second plant virus is a bromovirus.
- 54. (original) The vector of claim 50, wherein the second plant virus is an ilarvirus.
- 55. (original) The vector of claim 50, wherein the second plant virus is an alfamovirus.
- 56. (original) The vector of claim 50, wherein the second plant virus is alfalfa mosaic virus.
- 57. (original) The vector of claim 50, wherein the second plant virus is a bromovirus and the 3' untranslated region comprises at least a portion of an RNA3 untranslated region.
- 58. (original) The vector of claim 50, wherein the second plant virus is an ilarvirus and the 3' untranslated region comprises at least a portion of an RNA3 untranslated region.
- 59. (original) The vector of claim 50, wherein the second plant virus is an alfamovirus and the 3' untranslated region comprises at least a portion of an RNA3 untranslated region.

- 60. (original) The vector of claim 50, wherein the second plant virus is alfalfa mosaic virus and the 3' untranslated region comprises at least a portion of an RNA3 untranslated region.
- 61. (original) The vector of claim 60, wherein the 3' untranslated region comprises at least nucleotides 1859-1969 of the alfalfa mosaic virus genome.
- 62. (original) The vector of claim 61, wherein the 3' untranslated region further comprises at least a portion of nucleotides 1970-2037 of the alfalfa mosaic virus genome.
- 63. (original) The vector of claim 50, wherein the first plant virus is a tobamovirus
- 64. (original) The vector of claim 50, wherein the first plant virus is tobacco mosaic virus.
- 65. (original) The vector of claim 50, wherein the first plant virus is tobacco mosaic virus and the second plant virus is alfalfa mosaic virus.
- 66. (original) The vector of claim 50, wherein the vector further comprises at least a portion of a 3' untranslated region of an RNA of the first plant virus, or a complement thereof.
- 67. (original) The vector of claim 66, wherein the first plant virus is tobacco mosaic virus and the 3' untranslated region comprises nucleotides 6192 to 6395 of TMV.
- 68. (original) The vector of claim 50, wherein the vector is in DNA form.
- 69. (original) The vector of claim 50, wherein the vector is in RNA form.
- 70-81. (canceled)
- 82. (new) The vector of claim 50, wherein the vector is not capable of moving systemically in a plant.

- 83. (new) The vector of claim 50, wherein the vector is not capable of moving from cell to cell in a plant.
- 84. (new) The vector of claim 50, wherein the vector comprises a gene encoding a replicase protein.
- 85. (new) The vector of claim 50, wherein the component from the first virus is selected from the group consisting of: a promoter, a coat protein coding component, a movement protein coding component, and a replicase coding component.
- 86. (new) The vector of claim 50, further comprising a polynucleotide of interest.
- 87. (new) The vector of claim 86, wherein the polynucleotide of interest encodes a pharmaceutical protein of interest.
- 88. (new) A method of expressing a polynucleotide of interest comprising steps of:
 - (a) introducing the vector of claim 87 into a plant or plant cell;
- (b) maintaining the plant or plant cell under conditions and for a time sufficient that the polynucleotide is expressed in at least some plant cells.
- 89. (new) The method of claim 88, wherein the vector lacks a functional coat protein encoding component; wherein the method comprises steps of:
- (c) introducing a second vector into the plant or plant cell, wherein the second vector includes a functional coat protein gene;
- (d) maintaining the plant under conditions and for a time sufficient to allow the second vector to complement the first vector, so that the first vector moves systemically in the plant; and
- (e) maintaining the plant under conditions and for a time sufficient that the polynucleotide is expressed in at least some plant cells.
- 90. (new) The method of claim 89, wherein the second vector comprises a polynucleotide of interest that encodes a pharmaceutical protein of interest.
- 91. (new) The method of claim 89, wherein the first or second vector, or both, comprises a gene

that encodes a replicase protein.

- 92. (new) The method of claim 88, wherein the method comprises steps of:
- (c) introducing a second vector into the plant or plant cell, wherein the first vector, the second vector, or both, comprises a gene that encodes a replicase protein;
- (d) maintaining the plant or plant cell under conditions and for a time sufficient that the polynucleotide is expressed in at least some plant cells.
- 93. (new) The method of claim 92, wherein the second vector comprises a polynucleotide of interest.
- 94. (new) The method of claim 93, wherein the first and second polypeptides are polypeptide chains of a multimeric protein.
- 95. (new) The method of claim 93, wherein the first and second polypeptides encode proteins of pharmaceutical interest.
- 96. (new) A producer vector comprising (a) one or more components of a plant virus; and (b) a polynucleotide of interest, wherein the vector is defective for cell-to-cell movement or systemic movement, and wherein the vector comprises at least one polynucleotide encoding a replicase protein of a plant virus and comprises sufficient non-coding portions to allow self-replication.
- 97. (new) The producer vector of claim 96, wherein the vector is defective for both cell-to-cell movement and systemic movement.
- 98. (new) A method of expressing a polynucleotide of interest comprising:
 - (a) introducing the vector of claim 97 into a plant or plant cell;
- (b) maintaining the plant cell or plant cell under conditions and for a time sufficient that the polynucleotide is expressed.
- 99. (new) The method of claim 98, wherein the polynucleotide encodes a pharmaceutical protein of interest.

- 100. (new) The method of claim 98, wherein the method comprises steps of:
- (c) introducing a second vector into the plant or plant cell, wherein the second vector, or both, comprises a gene that encodes a replicase protein;
- (d) maintaining the plant or plant cell under conditions and for a time sufficient that the polynucleotide is expressed in at least some plant cells.
- 101. (new) The method of claim 100, wherein the second vector comprises a polynucleotide of interest, the method comprising steps of:
- (e) maintaining the plant or plant cell under conditions and for a time sufficient that the polynucleotide of the second vector is expressed in at least some plant cells.
- 102. (new) The method of claim 101, wherein the second vector comprises a gene that encodes a replicase protein.
- 103. (new) The method of claim 100, wherein the first and second polypeptides are polypeptide chains of a multimeric protein.
- 104. (new) The method of claim 103, wherein the first and second polypeptides encode proteins of pharmaceutical interest.
- 105. (new) The producer vector of claim 96, wherein the polynucleotide of interest encodes a pharmaceutical protein of interest.
- 106. (new) A method of expressing a polynucleotide of interest comprising:
 - (a) introducing the vector of claim 96 into a plant cell;
- (b) maintaining the plant cell under conditions and for a time sufficient that the polynucleotide is expressed.